

1647

RECEIVED  
JAN 29 2003  
1600  
#9  
Dmt  
2-6-03RECEIVED  
JAN 29 20031600  
#9  
Dmt  
2-6-03

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/936,697

DATE: 01/22/2003  
TIME: 14:17:49

Input Set : A:\ores5051us.txt  
Output Set: N:\CRF4\01222003\I936697.raw

3 <110> APPLICANT: BURNOL, ANNE-FRANCOISE  
4 PERDEREAU, DOMINIQUE  
5 KASUS-JACOBI, ANNE  
6 BEREZIAT, VERONIQUE  
7 GIRARD, JEAN  
8 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE  
10 <120> TITLE OF INVENTION: GRB14 AND THE INSULIN RECEPTOR AND SCREENING OF NOVEL  
MEDICINES  
12 <130> FILE REFERENCE: 45636-5051  
14 <140> CURRENT APPLICATION NUMBER: US 09/936,697  
15 <141> CURRENT FILING DATE: 2001-09-17  
17 <160> NUMBER OF SEQ ID NOS: 28  
19 <170> SOFTWARE: PatentIn Ver. 2.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 43  
23 <212> TYPE: PRT  
24 <213> ORGANISM: Rattus sp.  
26 <400> SEQUENCE: 1  
27 Pro Met Arg Ser Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser  
28 1 5 10 15  
30 Gly Gln Lys Thr Arg Val Ile Asp Asn Pro Thr Glu Ala Leu Ser Val  
31 20 25 30  
33 Ala Val Glu Glu Gly Leu Ala Trp Arg Lys Lys  
34 35 40  
38 <210> SEQ ID NO: 2  
39 <211> LENGTH: 84  
40 <212> TYPE: PRT  
41 <213> ORGANISM: Rattus sp.  
43 <400> SEQUENCE: 2  
44 Gln Ala Arg Ser Ala Cys Ser Ser Gln Ser Val Ser Pro Met Arg Ser  
45 1 5 10 15  
47 Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser Gly Gln Lys Thr  
48 20 25 30  
50 Arg Val Ile Asp Asn Pro Thr Glu Ala Leu Ser Val Ala Val Glu Glu  
51 35 40 45  
53 Gly Leu Ala Trp Arg Lys Lys Gly Cys Leu Arg Leu Gly Asn His Gly  
54 50 55 60  
58 Ser Pro Thr Ala Pro Ser Gln Ser Ser Ala Val Asn Met Ala Leu His  
59 65 70 75 80  
61 Arg Ser Gln Pro  
65 <210> SEQ ID NO: 3  
66 <211> LENGTH: 174  
67 <212> TYPE: PRT  
68 <213> ORGANISM: Rattus sp.

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,697

DATE: 01/22/2003  
TIME: 14:17:49Input Set : A:\ores5051us.txt  
Output Set: N:\CRF4\01222003\I936697.raw

```

70 <400> SEQUENCE: 3
71 Pro Met Arg Ser Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser
72 1 5 10 15
74 Gly Gln Lys Thr Arg Val Ile Asp Asn Pro Thr Glu Ala Leu Ser Val
75 20 25 30
77 Ala Val Glu Glu Gly Leu Ala Trp Arg Lys Lys Gly Cys Leu Arg Leu
78 35 40 45
80 Gly Asn His Gly Ser Pro Thr Ala Pro Ser Gln Ser Ser Ala Val Asn
81 50 55 60
83 Met Ala Leu His Arg Ser Gln Pro Trp Phe His His Arg Ile Ser Arg
84 65 70 75 80
86 Asp Glu Ala Gln Gln Leu Ile Thr Arg Gln Gly Pro Val Asp Gly Val
87 85 90 95
89 Phe Leu Val Arg Asp Ser Gln Ser Asn Pro Arg Thr Phe Val Leu Ser
90 100 105 110
92 Met Ser His Gly Gln Lys Ile Lys His Phe Gln Ile Ile Pro Val Glu
93 115 120 125
95 Asp Asp Gly Glu Val Phe His Thr Leu Asp Asp Gly His Thr Lys Phe
96 130 135 140
98 Thr Asp Leu Ile Gln Leu Val Glu Phe Tyr Gln Leu Asn Lys Gly Val
99 145 150 155 160
101 Leu Pro Cys Lys Leu Lys His Tyr Cys Ala Arg Met Ala Val
102 165 170
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 186
108 <212> TYPE: PRT
109 <213> ORGANISM: Rattus sp.
111 <400> SEQUENCE: 4
112 Gln Ala Arg Ser Ala Cys Ser Ser Gln Ser Val Ser Pro Met Arg Ser
113 1 5 10 15
115 Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser Gly Gln Lys Thr
116 20 25 30
118 Arg Val Ile Asp Asn Pro Thr Glu Ala Leu Ser Val Ala Val Glu Glu
119 35 40 45
121 Gly Leu Ala Trp Arg Lys Lys Gly Cys Leu Arg Leu Gly Asn His Gly
122 50 55 60
124 Ser Pro Thr Ala Pro Ser Gln Ser Ser Ala Val Asn Met Ala Leu His
125 65 70 75 80
127 Arg Ser Gln Pro Trp Phe His His Arg Ile Ser Arg Asp Glu Ala Gln
128 85 90 95
130 Gln Leu Ile Thr Arg Gln Gly Pro Val Asp Gly Val Phe Leu Val Arg
131 100 105 110
133 Asp Ser Gln Ser Asn Pro Arg Thr Phe Val Leu Ser Met Ser His Gly
134 115 120 125
136 Gln Lys Ile Lys His Phe Gln Ile Ile Pro Val Glu Asp Asp Gly Glu
137 130 135 140
139 Val Phe His Thr Leu Asp Asp Gly His Thr Lys Phe Thr Asp Leu Ile
140 145 150 155 160
142 Gln Leu Val Glu Phe Tyr Gln Leu Asn Lys Gly Val Leu Pro Cys Lys

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,697

DATE: 01/22/2003  
TIME: 14:17:49Input Set : A:\ores5051us.txt  
Output Set: N:\CRF4\01222003\I936697.raw

```

143                                     165                                     170                                     175
145 Leu Lys His Tyr Cys Ala Arg Met Ala Val
146                                     180                                     185
150 <210> SEQ ID NO: 5
151 <211> LENGTH: 43
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 5
156 Pro Met Arg Ser Ile Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser
157 1                                     5                                     10                                     15
159 Gly Gln Lys Ser Arg Val Ile Glu Asn Pro Thr Glu Ala Leu Ser Val
160                                     20                                     25                                     30
162 Ala Val Glu Glu Gly Leu Ala Trp Arg Lys Lys
163                                     35                                     40
167 <210> SEQ ID NO: 6
168 <211> LENGTH: 84
169 <212> TYPE: PRT
170 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 6
173 Gln Gly Arg Ser Gly Cys Ser Ser Gln Ser Ile Ser Pro Met Arg Ser
174 1                                     5                                     10                                     15
176 Ile Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser Gly Gln Lys Ser
177                                     20                                     25                                     30
179 Arg Val Ile Glu Asn Pro Thr Glu Ala Leu Ser Val Ala Val Glu Glu
180                                     35                                     40                                     45
182 Gly Leu Ala Trp Arg Lys Lys Gly Cys Leu Arg Leu Gly Thr His Gly
183 50                                     55                                     60
185 Ser Pro Thr Ala Ser Ser Gln Ser Ser Ala Thr Asn Met Ala Ile His
186 65                                     70                                     75                                     80
188 Arg Ser Gln Pro
193 <210> SEQ ID NO: 7
194 <211> LENGTH: 174
195 <212> TYPE: PRT
196 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 7
199 Pro Met Arg Ser Ile Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser
200 1                                     5                                     10                                     15
202 Gly Gln Lys Ser Arg Val Ile Glu Asn Pro Thr Glu Ala Leu Ser Val
203                                     20                                     25                                     30
205 Ala Val Glu Glu Gly Leu Ala Trp Arg Lys Lys Gly Cys Leu Arg Leu
206                                     35                                     40                                     45
208 Gly Thr His Gly Ser Pro Thr Ala Ser Ser Gln Ser Ser Ala Thr Asn
209 50                                     55                                     60
211 Met Ala Ile His Arg Ser Gln Pro Trp Phe His His Lys Ile Ser Arg
212 65                                     70                                     75                                     80
214 Asp Glu Ala Gln Arg Leu Ile Ile Gln Gln Gly Leu Val Asp Gly Val
215                                     85                                     90                                     95
217 Phe Leu Val Arg Asp Ser Gln Ser Asn Pro Lys Thr Phe Val Leu Ser
218                                     100                                     105                                     110

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/936,697

DATE: 01/22/2003  
TIME: 14:17:49Input Set : A:\ores5051us.txt  
Output Set: N:\CRF4\01222003\I936697.raw

220 Met Ser His Gly Gln Lys Ile Lys His Phe Gln Ile Ile Pro Val Glu  
 221 115 120 125  
 223 Asp Asp Gly Glu Met Phe His Thr Leu Asp Asp Gly His Thr Arg Phe  
 224 130 135 140  
 226 Thr Asp Leu Ile Gln Leu Val Glu Phe Tyr Gln Leu Asn Lys Gly Val  
 227 145 150 155 160  
 229 Leu Pro Cys Lys Leu Lys His Tyr Cys Ala Arg Ile Ala Leu  
 230 165 170  
 234 <210> SEQ ID NO: 8  
 235 <211> LENGTH: 186  
 236 <212> TYPE: PRT  
 237 <213> ORGANISM: Homo sapiens  
 239 <400> SEQUENCE: 8  
 240 Gln Gly Arg Ser Gly Cys Ser Ser Gln Ser Ile Ser Pro Met Arg Ser  
 241 1 5 10 15  
 243 Ile Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser Gly Gln Lys Ser  
 244 20 25 30  
 246 Arg Val Ile Glu Asn Pro Thr Glu Ala Leu Ser Val Ala Val Glu Glu  
 247 35 40 45  
 249 Gly Leu Ala Trp Arg Lys Lys Gly Cys Leu Arg Leu Gly Thr His Gly  
 250 50 55 60  
 252 Ser Pro Thr Ala Ser Ser Gln Ser Ser Ala Thr Asn Met Ala Ile His  
 253 65 70 75 80  
 255 Arg Ser Gln Pro Trp Phe His His Lys Ile Ser Arg Asp Glu Ala Gln  
 256 85 90 95  
 258 Arg Leu Ile Ile Gln Gln Gly Leu Val Asp Gly Val Phe Leu Val Arg  
 259 100 105 110  
 261 Asp Ser Gln Ser Asn Pro Lys Thr Phe Val Leu Ser Met Ser His Gly  
 262 115 120 125  
 264 Gln Lys Ile Lys His Phe Gln Ile Ile Pro Val Glu Asp Asp Gly Glu  
 265 130 135 140  
 267 Met Phe His Thr Leu Asp Asp Gly His Thr Arg Phe Thr Asp Leu Ile  
 268 145 150 155 160  
 270 Gln Leu Val Glu Phe Tyr Gln Leu Asn Lys Gly Val Leu Pro Cys Lys  
 271 165 170 175  
 273 Leu Lys His Tyr Cys Ala Arg Ile Ala Leu  
 274 180 185  
 278 <210> SEQ ID NO: 9  
 279 <211> LENGTH: 43  
 280 <212> TYPE: PRT  
 281 <213> ORGANISM: mus muris  
 283 <400> SEQUENCE: 9  
 284 Pro Met Arg Ser Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser  
 285 1 5 10 15  
 287 Gly Gln Ile Gly Arg Val Ile Asp Asn Pro Ala Glu Ala Gln Ser Ala  
 288 20 25 30  
 290 Ala Leu Glu Glu Gly His Ala Trp Arg Asn Gly  
 291 35 40  
 295 <210> SEQ ID NO: 10

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/936,697

DATE: 01/22/2003  
 TIME: 14:17:49

Input Set : A:\ores5051us.txt  
 Output Set: N:\CRF4\01222003\I936697.raw

296 <211> LENGTH: 82  
 297 <212> TYPE: PRT  
 298 <213> ORGANISM: mus muris  
 300 <400> SEQUENCE: 10  
 301 Pro Gln Arg Lys Gly Leu Pro Pro Phe Asn Ala Pro Met Arg Ser  
 302 1 5 10 15  
 304 Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser Gly Gln Ile Gly  
 305 20 25 30  
 307 Arg Val Ile Asp Asn Pro Ala Glu Ala Gln Ser Ala Ala Leu Glu Glu  
 308 35 40 45  
 310 Gly His Ala Trp Arg Asn Gly Ser Thr Arg Met Asn Ile Leu Ser Ser  
 311 50 55 60  
 313 Gln Ser Pro Leu His Pro Ser Thr Leu Asn Ala Val Ile His Arg Thr  
 314 65 70 75 80  
 316 Gln His  
 321 <210> SEQ ID NO: 11  
 322 <211> LENGTH: 172  
 323 <212> TYPE: PRT  
 324 <213> ORGANISM: mus muris  
 326 <400> SEQUENCE: 11  
 327 Pro Met Arg Ser Val Ser Glu Asn Ser Leu Val Ala Met Asp Phe Ser  
 328 1 5 10 15  
 330 Gly Gln Ile Gly Arg Val Ile Asp Asn Pro Ala Glu Ala Gln Ser Ala  
 331 20 25 30  
 333 Ala Leu Glu Glu Gly His Ala Trp Arg Asn Gly Ser Thr Arg Met Asn  
 334 35 40 45  
 336 Ile Leu Ser Ser Gln Ser Pro Leu His Pro Ser Thr Leu Asn Ala Val  
 337 50 55 60  
 339 Ile His Arg Thr Gln His Trp Phe His Gly Arg Ile Ser Arg Glu Glu  
 340 65 70 75 80  
 342 Ser His Arg Ile Ile Lys Gln Gln Gly Leu Val Asp Gly Leu Phe Leu  
 343 85 90 95  
 345 Leu Arg Asp Ser Gln Ser Asn Pro Lys Ala Phe Val Leu Thr Leu Cys  
 346 100 105 110  
 348 His His Gln Lys Ile Lys Asn Phe Gln Ile Leu Pro Cys Glu Asp Asp  
 349 115 120 125  
 351 Gly Gln Thr Phe Phe Thr Leu Asp Asp Gly Asn Thr Lys Phe Ser Asp  
 352 130 135 140  
 354 Leu Ile Gln Leu Val Asp Phe Tyr Gln Leu Asn Lys Gly Val Leu Pro  
 355 145 150 155 160  
 357 Cys Lys Leu Lys His His Cys Ile Arg Val Ala Leu  
 358 165 170  
 362 <210> SEQ ID NO: 12  
 363 <211> LENGTH: 184  
 364 <212> TYPE: PRT  
 365 <213> ORGANISM: mus muris  
 367 <400> SEQUENCE: 12  
 368 Pro Gln Arg Lys Gly Leu Pro Pro Phe Asn Ala Pro Met Arg Ser  
 369 1 5 10 15

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/936,697

DATE: 01/22/2003  
TIME: 14:17:50

Input Set : A:\ores5051us.txt

Output Set: N:\CRF4\01222003\I936697.raw

1/22/03